Mathematics	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	**Number:** Place value Properties of number Operations and BIDMAS	**Number:** Problem solving Money **Geometry and Measures** Time	**Number:** Arithmetic procedures including fractions Bar Modelling **Geometry and Measures:** Units of measure	**Number:** Fractions Positive and negative numbers Arithmetic procedures including fractions.	**Ratio and proportion** Understanding multiplicative relationships: fractions and ratio. **Statistics and data:** Plotting coordinates	**Geometry and Measures:** Perimeter and area Transformations
Year 8	**Number:** Fractions, decimals and percentages Estimation and rounding Squares and square roots	**Geometry and measures:** 2D and 3D shapes Perimeter, area and volume Angles in polygons	**Problem solving:** Money Probability Everyday events	**Algebra:** Sequences Expressions and equations Expanding and factorising Linear equations	**Statistics and data:** Graphs and charts: Pictograms/tally charts Line graphs Bar charts Pie charts Stem and leaf diagrams Venn Diagrams	**Statistics and data:** Reading and interpreting data Averages **Geometry and measures:** Time
Year 9	**Number** Place value 4 operations, BIDMAS Fractions, decimals and percentages Time Indices and standard form Problem solving Calculator skills	**Probability** Frequency tables Frequency trees Probability of single and combined events Statistics Graphs and charts Reading, understanding and presenting data	**Algebra** Expressions and formulae Lines and graphs Plotting graphs in 4 quadrants Linear and Non-linear sequences	**Geometry and measures** Similarity and congruence Pythagoras' Theorem Problem solving Calculator skills	**Geometry and Measures** Interior and exterior angles Transformations of 2D shapes Ratio and proportion Problem solving Calculator skills	**Geometry and measures** Loci and constructions Bearings and compasses Map reading Ratio and proportion Calculator skills

Year 10	**Number** Place value 4 operations, BIDMAS Fractions, decimals and percentages Time **Algebra** Sequences	**Algebra** Expressions and formulae Equations Lines and graphs Non-linear sequences **Geometry and Measures** 2D representations of 3D shapes Properties of polygons Angles	**Geometry and measures** Measures Perimeter and area Circumference and area **Basic probability**	**Ratio and proportion** **Geometry and measures** Scale diagrams and bearings **Number** Indices Standard form	**Geometry and measures** Transformations Congruence and similarity **Algebra** Coordinates and linear graphs Real life graphs	**Statistics** Collecting and representing data Statistical measures **Algebra review and recap**
Year 11	Number Recap and review Geometry and Measures Perimeter, area, circumference Volume Pythagoras' Theorem Probability	Statistics Bar charts Scatter diagrams Stem and leaf diagrams Pie charts Algebra Quadratics Rearranging formulae and identities Inequalities Algebra and graphs	Algebra Algebra and graphs Sketching graphs Ratio and Proportion Direct and inverse proportion	Trigonometry Algebra Solving quadratic equations Quadratic graphs	Algebra Simultaneous equations Ratio and proportion Growth and decay Number Vectors	Recap and revision Exam preparation